



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

AIR COMPLIANCE & ENFORCEMENT

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October 1, 2010

Environmental Facility Manager

«AddressBlock»

RE: Program Interest #: «PI\_Number» Permit Activity #: «Activity\_Number» Equipment ID:  
«NJID»

N.J.A.C. 7:27-19.7 NOx RACT Required Boiler Emission Limit demonstration for  
Industrial/Commercial/Institutional boilers and other indirect heat exchangers

Dear Environmental Manager and / or Facility Manager:

This letter is being sent to your facility because the Department's records indicate that this facility owns or operates an Industrial/Commercial/Institutional boiler(s) and other indirect heat exchanger(s) of the 25 MMBTU/Hr to 50 MMBTU/Hr heat input rate range regulated under N.J.A.C. 7:27-19.7. This letter is to inform you of upcoming requirements and final compliance dates affecting these sources of air pollution.

The Department's Air Pollution Control Program regulates the air pollution emissions from these sources, in particular Nitrogen Oxides, more commonly referred to as NOx. These regulations may be found in the Department's Air Pollution regulations under N.J.A.C. 7:27-19, et. seq., referred to as Subchapter 19. Industrial/Commercial/Institutional boilers and other indirect heat exchangers' regulations are covered under section N.J.A.C. 7:27-19.7. These regulations may be reviewed on the internet at the following link: <http://www.state.nj.us/dep/aqm/Sub19.pdf>.

These regulations require that a facility owning and / or operating these sources must comply with the NOx emission rate (pounds NOx per million BTU of fuel used) listed in N.J.A.C. 7:27-19.7(i), Table 9, by May 1, 2011, if no physical modification to the equipment is performed. If a physical modification is planned to achieve compliance, the compliance date is extended until May 1, 2012.

**Pursuant to N.J.A.C. 7:27-19.17(a), the Department hereby requires that you conduct stack emissions testing for nitrogen oxides to demonstrate compliance with N.J.A.C. 7:27-19.7(i)1, Table 9 by November 1, 2011, or submit a permit application for a physical modification, by that date.**

Stack testing requirements are detailed in this regulation under N.J.A.C. 7:27-19.17, which can be found on the Department's web site at: <http://www.state.nj.us/dep/aqm/Sub19.doc>. The Department will accept NJDEP Bureau of Technical Services certified results of NOx stack testing for these specific sources, if the testing was performed within the past five (5) years from the May 1, 2011 date if these results demonstrate compliance with the NOx emission limit listed at N.J.A.C. 7:27-19.7(i), Table 9.

Any NOx testing conducted pursuant to N.J.A.C. 7:27-19.7(i) shall be conducted concurrently with CO testing. Pursuant to N.J.A.C. 7:27-19.15(a)2, the applicable NOx emission limits in this

subchapter will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit in N.J.A.C. 7:27-16 or the permit limit for CO, whichever is more stringent.

The stack test must be performed in accordance with a protocol prepared in accordance with the Department's Bureau of Technical Services' Technical Manual 1004. In order to simplify and expedite the stack testing process, the facility must prepare a protocol using the Protocol Templates for Selected Methods provided by the Department's Bureau of Technical Services. You must conduct the stack test using Test Methods 1 or 1A, 3 or 3A, 7E and 10. Technical Manual 1004 and the Protocol Templates can be found at: <http://www.nj.gov/dep/bts/consult.html>. In order to select a NOx analyzer span using the Method 7E Protocol Template, you must multiply your Subchapter 19 NOx lb/MMBTU standard by the boiler MMBTU/hr rating to determine the corresponding NOx lb/hr limit. Questions related to preparing your protocol using the Protocol Templates should be directed to the Bureau of Technical Services at (609) 530-4041.

You do not need to submit the protocol to the Department for prior approval, or schedule the test with the Department. However, you must submit a summary of the test results, including a comparison to the emission allowables and details of the operation level of the boiler(s) during testing, within 60 days of the completion of the stack tests to the Department. All stack emission test reports must include the certification language specified in N.J.A.C. 7:27-1.39 as required by N.J.A.C. 7:27-8.15(c) or N.J.A.C. 7:27-22.18(h). The report must also be certified by a Professional Engineer or Certified Industrial Hygienist as required by N.J.A.C. 7:27-8.4(c) or N.J.A.C. 7:27-22.18(h). The summary stack test report must be submitted to your local Regional Air Compliance & Enforcement office, using the address specified at: <http://www.nj.gov/dep/easyaccess/compenf.htm#Aircomplenf>

A copy of the complete stack test report and protocol must be maintained on site for a period of 5 years and available for review by the Department. The Department reserves the right to require submission of the complete stack test report and protocol upon request.

If the facility determines that it cannot meet the requirement to perform the stack test by November 1, 2011, a request for an extension **must** be received in writing 30 days prior to the compliance date and will not be considered unless it contains appropriate justification. A request of this nature must be sent to your local Regional Air Compliance & Enforcement office for consideration. Should you have any questions concerning this letter, please contact your local to your local Regional Air Compliance & Enforcement office for assistance in this matter. Contact information for your local Regional Air Compliance & Enforcement office can be found at:

<http://www.nj.gov/dep/easyaccess/compenf.htm#Aircomplenf>

Thank you for your attention to this matter.

Sincerely,



Edward A. Choromanski  
Administrator

C: NJDEP-Bureau of Technical Services  
NJDEP-Air Quality Permitting Program